**HEWLETT-PACKARD COMPANY** tellectual Property Administration D. Box 272400 , Collins; Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200308566-1

2813

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ventor(s):

Confirmation No.: 5441

Application No.: 10/612,663

Examiner: James M. Mitchell

Filing Date:

July 2, 2003

Xiang Dai et al.

**Group Art Unit:** 

Title:

FEB 1 1 2005

SUPPORTING A CIRCUIT PACKAGE INCLUDING A SUBSTRATE HAVNG A SOLDER

COLUMN ARRAY

Mail Stop Amendment **Commissioner for Patents** PO Box 1450 Alexandria, VA 22313-1450

### TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Sir:			
Tran	smitted herewith is/are the following in the above-identifie	d app	olication:
( )	Response/Amendment	( )	Petition to extend time to respond
( )	New fee as calculated below	( )	Supplemental Declaration
( )	No additional fee		
(X)	Other: SIDS; Statement; 1449; (3) refs; return postcard		(fee \$)

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY										
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT			(5) PRESENT R EXTRA		(6) RATE		ADD	(7) ITIONAL EES	
TOTAL CLAIMS		MINUS			=	0	х	\$50	\$	0
INDEP. CLAIMS		MINUS			=	0	х	\$200	\$	0
[ ] FIR	[ ] FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM + \$360							\$360	\$	0
EXTENSION FEE	1ST MONTH \$120.00		MONTH 0.00	3RD MON \$1020.0			1 MON 590.0		\$	0
OTHER FEES							FEES	\$		
	TOTAL ADDITIONAL FEE FOR THIS AMENDMENT							DMENT	<b>\$</b>	0

o to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

Date of Deposit: Feb. 8, 2005

Typed Name: Patrick G. Billig

Respectfully submitted,

Xiang Dai et al.

Patrick G. Billig

Attorney/Agent for Applicant(s)

Reg. No. 38,080

Date: Feb. 8, 2005

Telephone No.: (612) 573-2003

- Attach as First Page to Transmitted Papers -

mert collins, Colorado 80527-2400

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### INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

( ) under 37 CFR 1.97(b), or (Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

(X) under 37 CFR 1.97 (c) together with either a:

(X) Statement under 37 CFR 1.97(e), or

( ) a \$180.00 fee under 37 CFR 1.17(p), or (After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

( ) under 37 CFR 1.97 (d) together with a:

( ) Statement under 37 CFR 1.97(e)(1) or (2), and

( ) a \$180.00 fee set forth in 37 CFR 1.17(p).

(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00 At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with (X) any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: Feb. 8. 2005

OR

( ) I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number on

Number of pages:

Typed Name: Patrick G. Billio

Signature:

Patrick G. Billiq

Respectfully submitted,

Xiang Dai et al.

Attorney/Agent for Applicant(s)

Reg. No. 38,080

Date: Feb. 8, 2005

Telephone No.: (612) 573-2003

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Mail Stop Amendment Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

#### STATEMENT UNDER 37 CFR 1.97(e)

Sir:

The undersigned hereby certifies that either:

- (X) Each item of information contained in the Information Disclosure Statement was cited for the first time in a communication from a foreign patent office in a counterpart foreign application, not more than three months prior to the filing of the statement, or
- ( ) No item of information contained in the Information Disclosure Statement
  - -- was cited in a communication from a foreign patent office in a counterpart foreign application, and
  - -- to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56 (c) more than three months prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Xiang Dai et al.

Patrick G. Billig

Attorney/Agent for Applicant(s)

Reg. No.

38,080

Date: Feb. 8, 2005

Telephone No.: (612) 573-2003



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

Sheet 1

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known					
Application Number	10/612,663				
Filing Date	July 2, 2003				
First Named Inventor	Xiang Dai et al.				
Art Unit	2813				
Examiner Name	James M. Mitchell				
Attorney Docket Number	200208566.1				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 2003/0095392	5/2003	Deeney	
		US-			
		US-		·	
		US-			

		FORE	IGN PATENT DOCU	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Publication Name of Patent		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T⁵
		JP 9-36537	2/1997	Matsushita		V
		JP 2001-127113	5/2001	Nippon Electric		~
						┡

Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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Substitut	Substitute for form 1449/PTO			Complete if Known			
Substitute for form 1449/1 10		Application Number	10/612,663				
INF	ORMATION	DIS	CLOSURE	Filing Date	July 2, 2003		
STA	STATEMENT BY APPLICANT			First Named Inventor	Xiang Dai et al.		
	(Use as many she	oto oo n	00000001	Art Unit	2813		
	(Use as many sne	eis as ii	ecessary)	Examiner Name	James M. Mitchell		
Sheet	2	of	2	Attorney Docket Number	200308566-1		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		A copy of GB Search Report for Application No. GB0414544.7 mailed on November 16, 2004 (3 pages).	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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